### Coastal Resilient Communities Workshop



## Livelihoods Vulnerability, Coping and Resilience: Experiences from Coastal Zone of Bangladesh

#### **Presented by**

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Bangkok, Thailand. May, 2006.

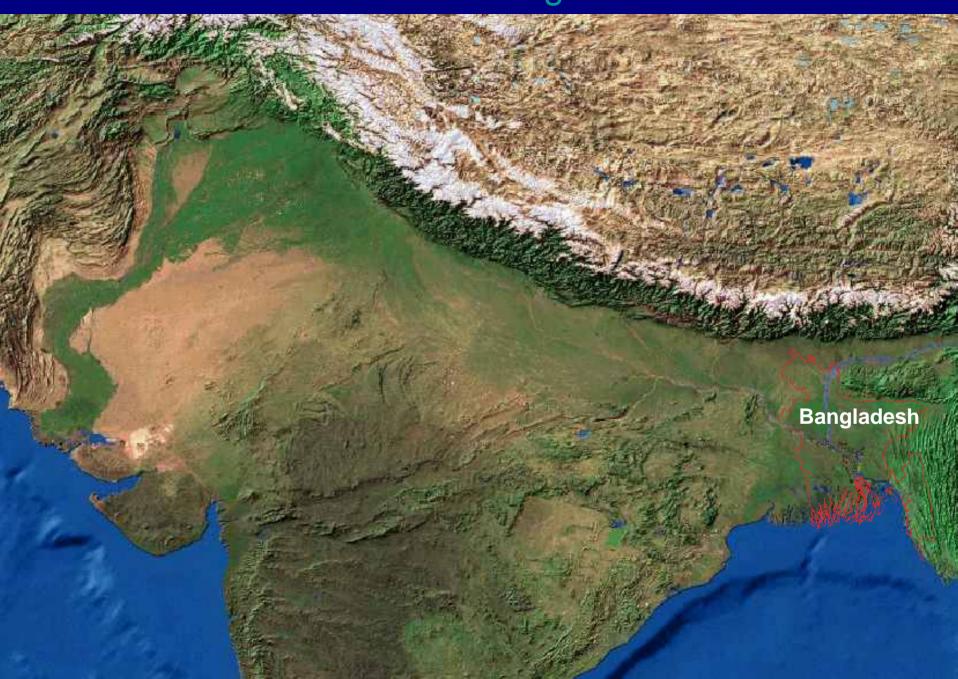
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## Location of Bangladesh

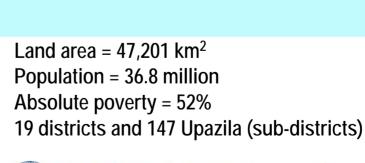


#### 19 districts of BGD

COast (exposed & non-exposed)

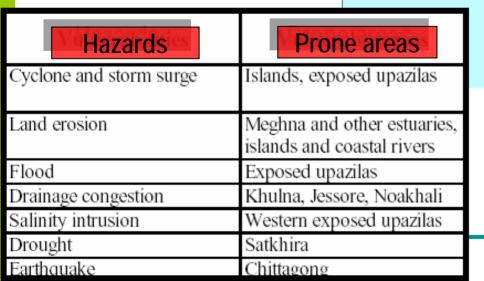
#### COASTAL ZONE BANGLADESH





LAK SHMIPUR

NOAKHALT





GOPALGANJ

OHALAKATI &

BARGUNA

BAY OF BENGAL

■SATKHIRA



COX'S BAZAR

# Mixed methodology developed for vulnerability assessment



Review of secondary literature and data Mail survey with coastal NGOs Participatory workshops in 19 districts

Several case studies





## Participatory focused workshops with coastal stakeholders

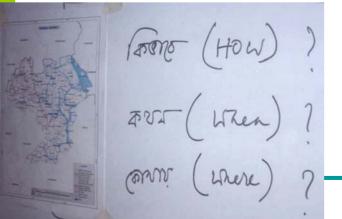


List vulnerability factors by livelihood group

Respondents select 5 most important

3

Rank according to frequency





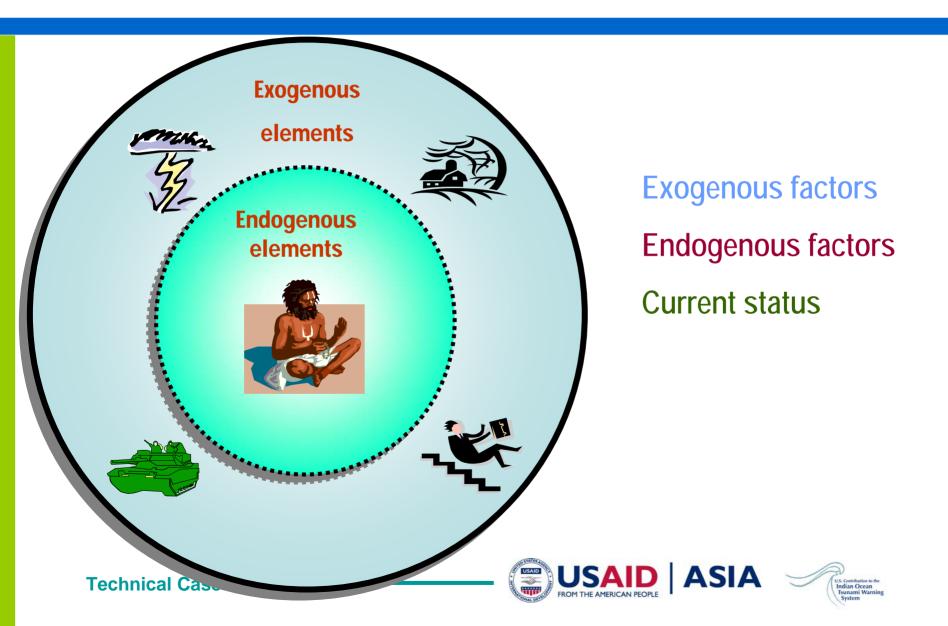
Info on spatial and temporal distribution, and coping





## **Vulnerability**

$$f(a_{en},b_{en}...n_{en});(a_{ex},b_{ex}...n_{ex})$$



## **Analysis of Vulnerabilities**



161 vulnerability factors >>13 composite vulnerability domains

**ENVIRONMENTAL** 

**ECONOMIC** 

SOCIAL

**GOVERNANCE** 

Water

Disasters

**Environment** 

**Employment** 

Productive activities

Household assets

Household finances

Social issues

Women's conditions

Illegality

Health and education

Infrastructure and services

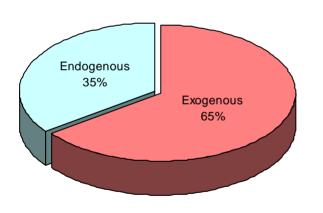
Governance



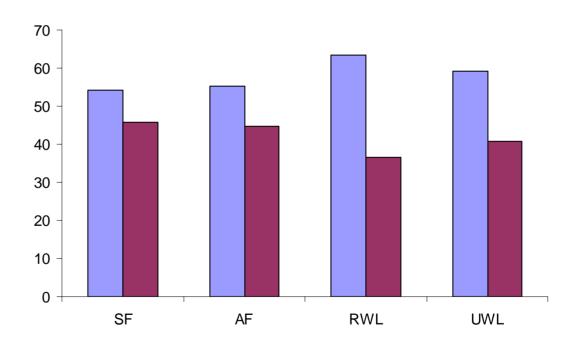


## Nature of vulnerability factors

#### **Overall**



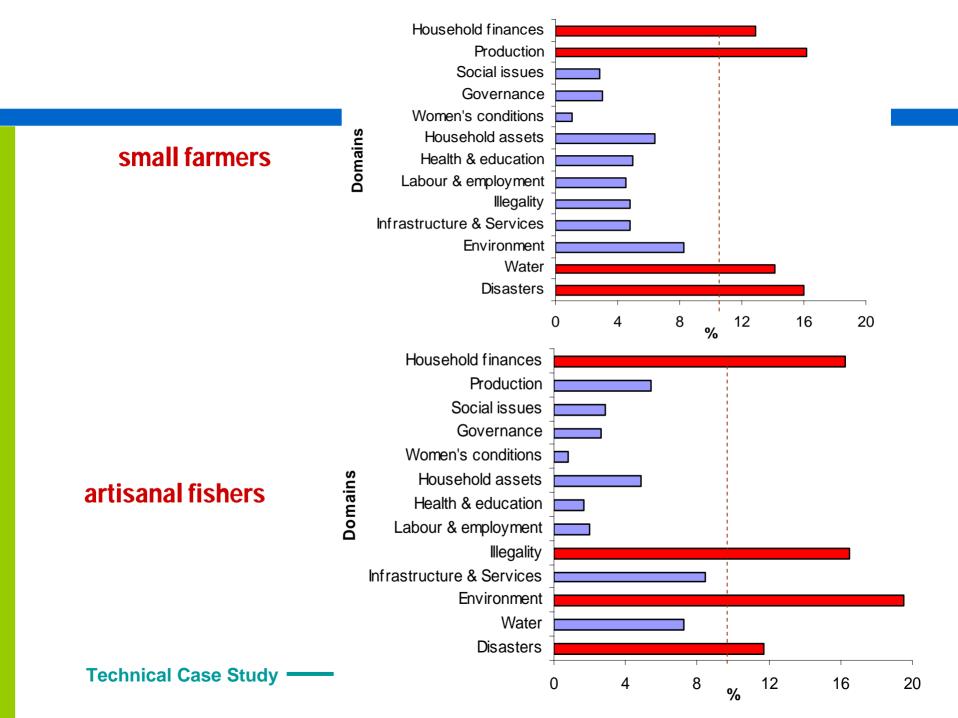
#### By livelihood groups









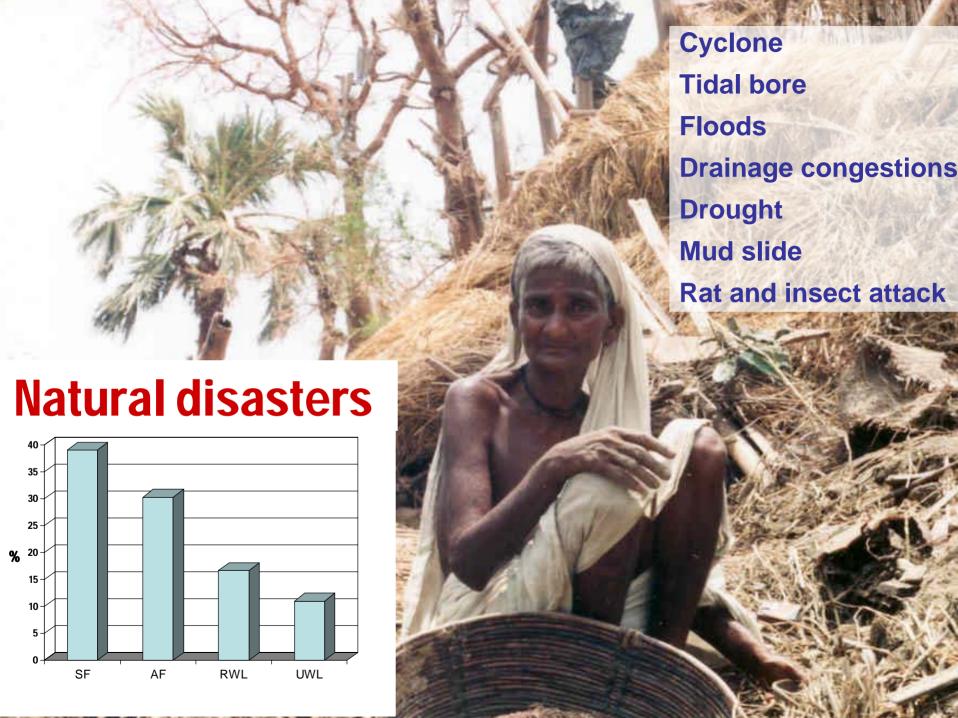




Deterioration of natural resource base **Environment** Loss of biodiversity **Deforestation River erosion Increased salinity Siltation** the time to proper the property of 60 50 30 20 10 SF **RWL** UWL







### Governance

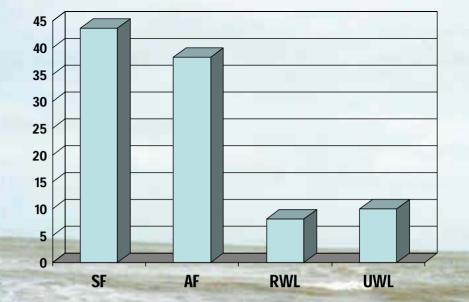
Complex fishing policy
Leasing of water bodies
Agricultural subsidies

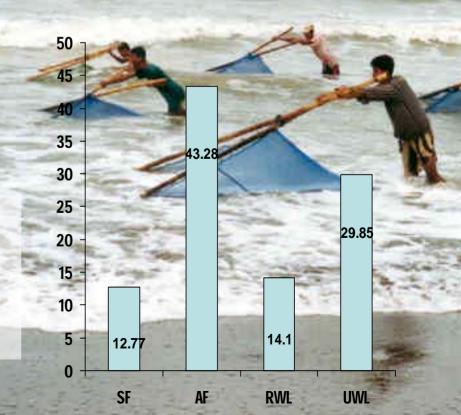


## **Illegality**

**Deteriorating law and order** 

Impediment to access natural resources

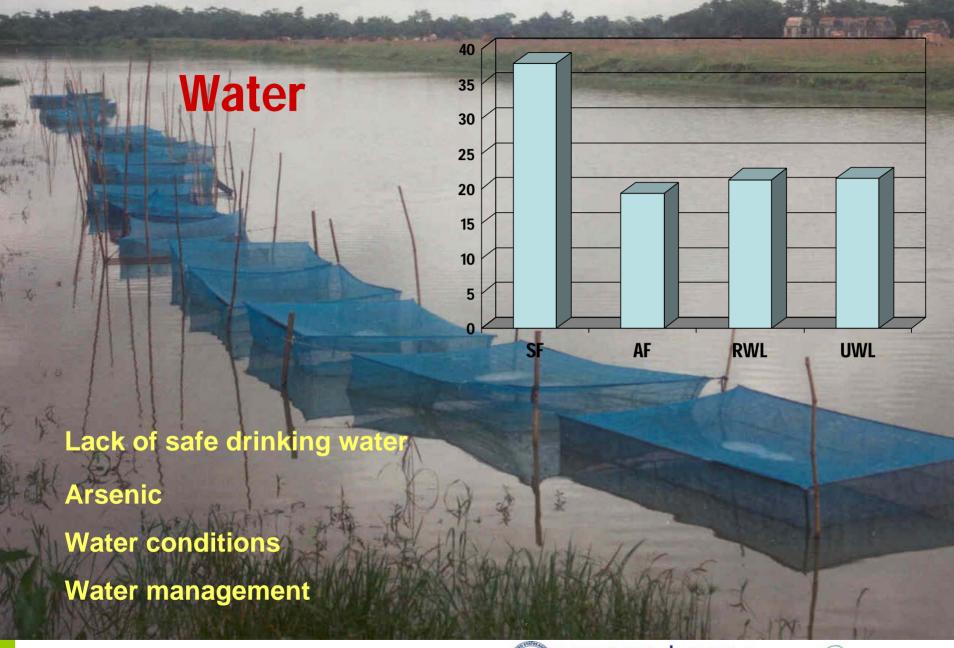












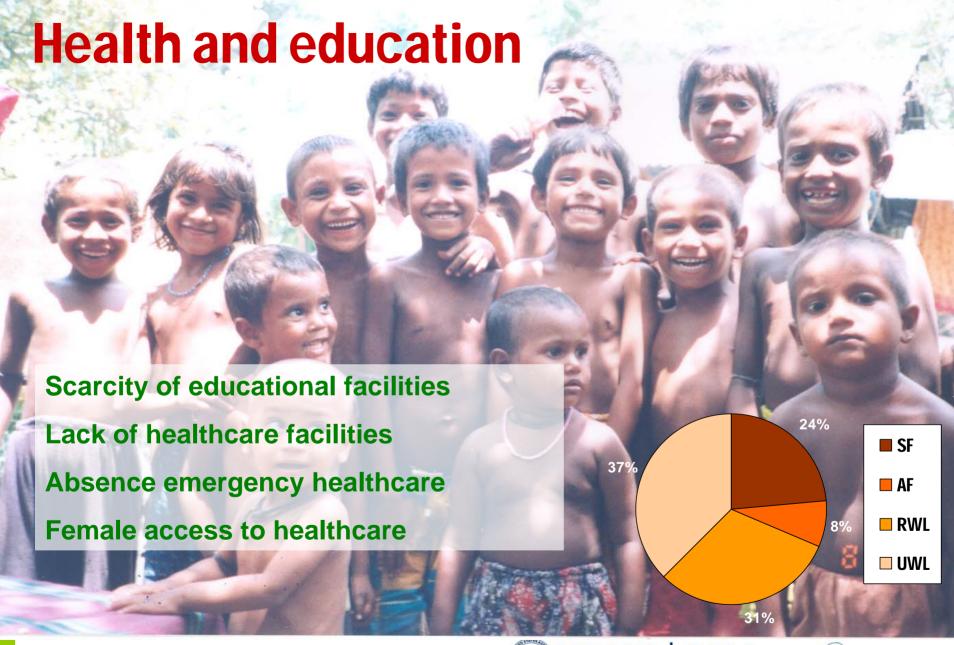
















#### Social issues

Large family size

**Dowry** 

**Polygamy** 

Social dysfunctions (e.g. prostitution)

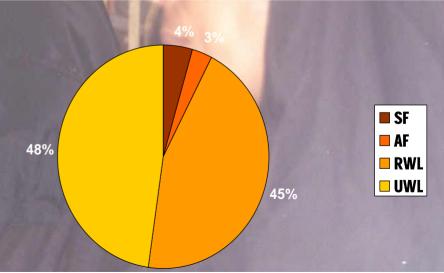


## WOMEN'S CONDITIONS

Social constrains of female workers Low female wage rates

**Violence** 

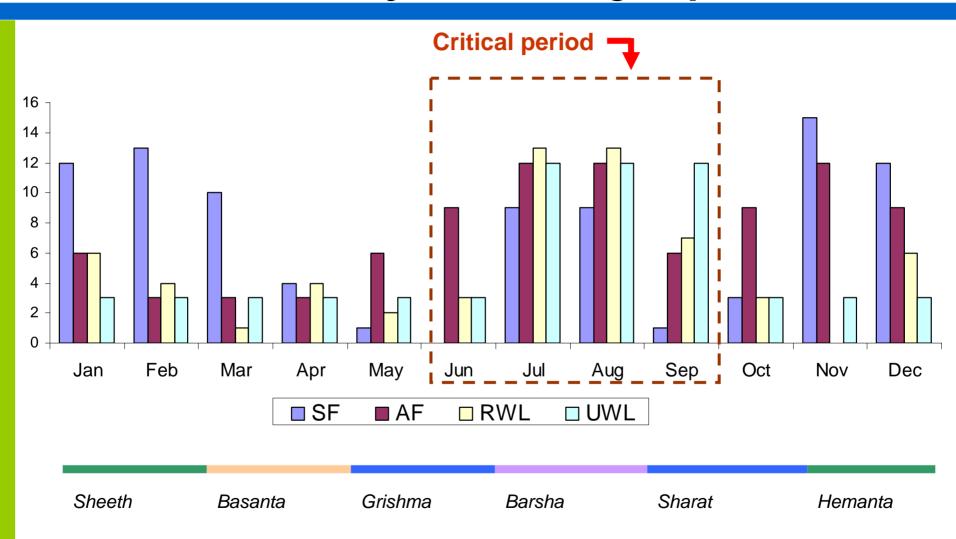
**Harassments** 





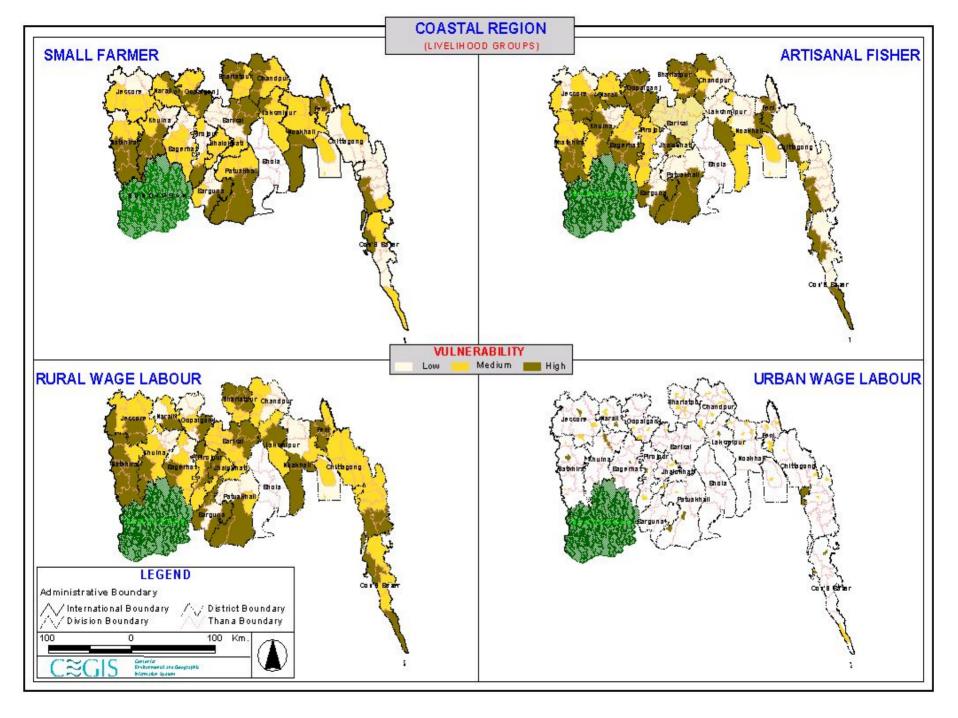


# Temporal distribution of <u>lack of cash</u> as vulnerability factor (all groups)

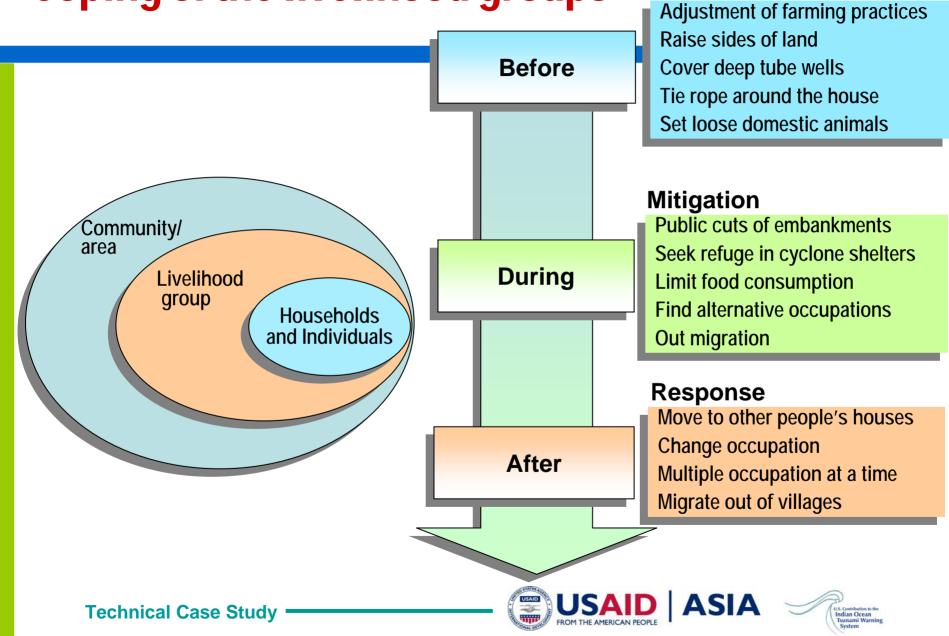






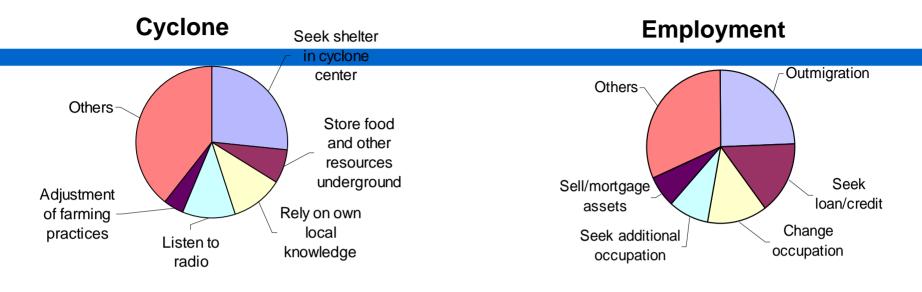


## Coping of the livelihood groups

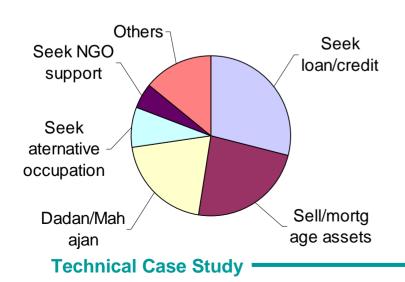


**Preparedness** 

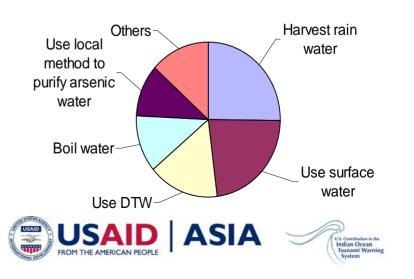
#### Few examples by VFs



#### Lack of cash



#### Arsenic and contaminated water



#### Few "encouraging" elements of resilience (state supported)

- Coastal embankments and polders to give greater structural security
- Coastal Green Belt Project for the past 30 years this is operating to develop a greater ecological shields to the coastal shores
- Cyclone Shelters and killas designed for multi-purpose
- Cyclone Preparedness Program (CPP) for dissemination of early warning and needed institutional network up to village level
- Civil society, NGO and MFIs expansion growing fast.
- The Sundarban forest (the world heritage site) natural protection to the southwestern coastal area.



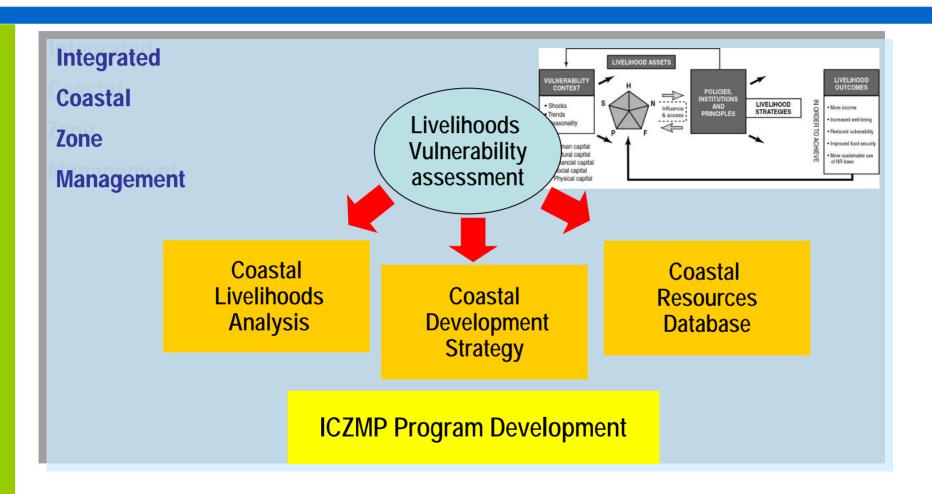








#### Implications for ICZMP Bangladesh







#### Synergies for IOTWS program .....

- An in-depth understanding of the vulnerabilities existing (factors, temporal and spatial connotations) and coping strategies adopted at community level.
- Leads towards finding out gaps between the livelihood vulnerabilities and overall community resilience for the community. That is useful for devising community resilience.
- Establish contacts, networks and ensure participation that can lead towards advocacy and awareness for community resilience.
- The approach can strategically contribute in overall ICZM framework and Sustainable Development.
- The methodology is relatively simple and can be mainstreamed at national and/or sub-national level for a continued adaptive learning which is a major paradigm now for resilience and sustainable development.









